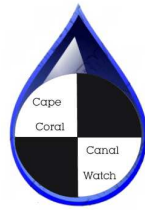


# Canalwatch



1<sup>st</sup> Quarter 2006 Newsletter ~ Environmental Resources Division ~ (239) 574-0745

## Please Welcome Our Newest Volunteers!!!



Charles & Dolores Rockwood (1B)



Gary Brooks (1C)



Lincoln Fretwell (6F)



Carey & Ruth Parks (26D)



Glenn Frederick (70C)



Philip Baschal (60A)



Frank & Beth Desiderio (64B)



Jeanette Chupack (74B)



### Future Volunteers:

- Alec & Amy Hart (11C)
- Frank & Karen Deluca (74A)
- Joan DiBattista (42A)
- Robert & Anne McGuire (64C)
- Susan & Tony Porreca (58F)
- Thomas McNamara (25A)

### In this issue...

- Page 2** Cape Coral Canals - Conference Summary  
Annual BBQ  
Volunteers Wanted
- Page 3** 1<sup>st</sup> Quarter 2006 Canalwatch Data
- Page 4** Events & Mailing

National Volunteer Week April 23<sup>rd</sup> - 29<sup>th</sup>!!!



## Cape Coral Canals:

### A Public Conference on Water Quality & Quantity

It was a pleasure to see many Canalwatch volunteers present at this conference, sponsored by the Charlotte Harbor National Estuary Program and the City of Cape Coral's Environmental Resources Division on March 25<sup>th</sup>. The all day conference included three sessions with guest speakers Dr. Bill Hammond of Florida Gulf Coast University who discussed The Nature of Cape Coral's Water, Dr. Stephen Bortone of the Sanibel-Captiva Conservation Foundation Marine Laboratory who discussed Water Quality, and Susan Sylvester of the South Florida Water Management District who discussed Water Quantity. Each presentation was followed by facilitated group discussions then a consensus was announced. A fourth session followed to prioritize concerns and suggestions to protect the health of Cape Coral's Canals. Exhibitors and professionals from local water agencies were also available for citizens to discuss concerns and ask questions.

#### Here are the primary concerns:

- Many areas of the Cape Coral are experiencing critical water supply problems.
- Water quality also is an issue caused by storm water runoff from yards, roads, parking lots and other impervious areas carrying pollutants into the City's canals & surrounding estuary.
- Nitrogen loading caused by over-fertilization is a water quality problem in many areas.
- Exotic pests (insects, diseases, plants and animals) are causing significant threats to residential gardens, commercial landscapes and Florida's natural areas.
- Due to a lack of information, many residents inadvertently contribute to the problem.

#### How to help:

- Education. Elected officials, homeowners, new residents, volunteer groups, schools, teachers, students, and local, state, county, & federal government. Everyone is responsible!
- Lead by example.
- Plant Florida Friendly Landscaping. Attend a Florida Yards & Neighborhoods class (schedule in the events section)!
- Use seawall alternatives on freshwater lots & re-establish natural habitat by planting littorals plants.
- Add rip-rap along seawalls on saltwater lots & re-establish natural habitat by planting mangroves.
- Conserve water.
- Participate in Canalwatch (see column: Volunteers Wanted).

More information will be available at: <http://www.chnep.org>

### The Annual Canalwatch & Adopt-A-Canal BBQ was April 5<sup>th</sup>.

Thanks to Chuck Pavlos, Environmental Resources, Lab Staff, Services, Lee County Hyacinth Control, & Tom Becker (FYN) for showing your support!

Thanks for all that you do to monitor and help keep Cape Corals Canals beautiful!

## Volunteers Wanted:

If someone you know is interested in joining the Canalwatch team to help sample any of the following canal systems, please contact our office at: 574-0745 or 574-0746 or e-mail: [fopatrny@capecoral.net](mailto:fopatrny@capecoral.net).

### Northwest

- Anchor Lake (fw)
- Carousel Lake (fw)
- Cassandra Canal (fw)
- Dewberry Canal (fw)
- Holiday Lake (fw)
- North Spreader Waterway (sw)
- Starfish Lake (fw)

### Northeast

- Eureka Canal (fw)
- Lake Meade (fw)
- Laurel Lake (fw)
- Nectar Basin (fw)

### Southwest

- Finisterre Lake (sw)
- Jolie Lake (fw)
- Lake Louise (sw)
- Lake Yuma (sw)
- McDonough Canal (fw)
- Memory Lake (fw)
- Mohave Lake (fw)
- Niagara Canal (fw)
- Progress Canal (sw)
- Thunderbird Lake (sw)
- Valmora Lake (fw)
- Weatherly Lake (fw)

### Southeast

- Cat Cay Lake (sw)
- Everest Canal (sw)
- Meade Canal (sw)
- Shamrock Lake (fw)

### Reward:

- Access to local water quality experts.
- Educational programs and reward banquets.
- Quarterly & annual water quality chemistry reports on your canal.
- Free Quarterly Newsletters & educational information on canal ecology and the local environment.
- The knowledge that you are contributing to the natural beauty of Cape Coral's future water quality!

(fw) = freshwater (sw) = brackish water

# Canalwatch Data

Thanks!	January						February						March					
STATION	NO2	NO3	NH3	TKN	T-N	T-PO4	NO2	NO3	NH3	TKN	T-N	T-PO4	NO2	NO3	NH3	TKN	T-N	T-PO4
1A	<0.050	0.55	0.20	1.4	1.95	0.050	<0.050	0.35	0.20	0.90	1.25	<0.050	<0.050u	0.26	<0.10	0.50	0.76	<0.050
1B	New Volunteer!						<0.050	0.28	0.10	1.9	2.18	<0.050	<0.050u	0.30	<0.10	1.0	1.3	<0.050
1C	New Volunteer!						<0.050	0.30	<0.10	1.8	2.10	<0.050	<0.050u	0.30	0.10	1.2	1.5	<0.050
3D	<0.050	0.43	0.20	1.2	1.63	0.050	<0.050	0.26	0.10	1.2	1.46	<0.050	<0.050u	0.30	0.20	0.70	1.0	<0.050
3F	<0.050	0.45	0.20	1.5	1.95	<0.050	<0.050	0.25	<0.10	1.5	1.75	<0.050	<0.050u	0.29	0.10	1.0	1.29	<0.050
4D	<0.050	0.34	0.10	2.0	2.34	0.050							<0.050u	0.24	<0.10	0.50	0.74	<0.050
6D	<0.050	0.55	0.20	1.9	2.45	0.050	<0.050	0.29	<0.10	<0.10	0.29	<0.050	<0.050u	0.22	<0.10	1.8	2.02	<0.050
9A	<0.050	0.30	0.20	1.3	1.60	<0.050	<0.050	0.23	<0.10	<0.10	0.23	<0.050	<0.050u	0.22	<0.10	1.0	1.22	<0.050
10B	<0.050	0.32	0.20	1.1	1.42	<0.050	<0.050	0.28	<0.10	1.2	1.48	<0.050						
12E	<0.050	0.36	0.20	1.6	1.96	<0.050	<0.050	0.35	<0.10	1.4	1.75	<0.050	<0.050u	0.22	0.10	0.90	1.12	<0.050
12F	<0.050	0.40	0.20	1.4	1.80	<0.050	<0.050	0.20	<0.10	0.80	1.00	0.050	<0.050u	0.16	<0.10	1.0	1.16	<0.050
16B	<0.050	0.15	0.10	0.50	0.65	<0.050u	<0.050	0.22	<0.10	2.2	2.42	<0.050	<0.050u	0.21	<0.10	0.50	0.71	<0.050
16C	<0.050	0.22	0.20	0.30	0.52	<0.050u	<0.050	0.21	<0.10	1.0	1.21	<0.050						
18C	<0.050	0.44	0.20	2.4	2.84	0.080	<0.050	0.27	0.10	1.1	1.37	0.060	<0.050u	0.22	<0.10	5.6	5.82	<0.050
18E	<0.050	0.21	0.10	0.90	1.11	<0.050	<0.050	0.22	<0.10	2.2	2.42	<0.050						
19A	<0.050	0.44	0.20	1.4	1.84	0.10	Retired Volunteer						Retired Volunteer					
19D	<0.050	0.62	0.20	1.6	2.22	0.080	<0.050	0.30	0.10	3.9	4.20	<0.050	<0.050u	0.23	0.10	1.0	1.23	0.060
19E	<0.050	0.57	0.20	1.6	2.17	0.080	<0.050	0.40	0.10	2.2	2.60	0.050	<0.050u	0.26	<0.10	0.90	1.16	<0.050
20C	<0.050	0.31	0.10	1.4	1.71	<0.050u	<0.050	0.35	0.10	1.4	1.75	<0.050	<0.050u	0.21	0.10	1.7	1.91	<0.050
21B													<0.050u	0.22	<0.10	1.1	1.32	<0.050
21C	<0.050	0.26	0.20	1.0	1.26	0.060	<0.050	0.24	0.10	1.6	1.84	0.050	<0.050u	0.22	0.10	0.90	1.12	<0.050
21D	<0.050	0.26	0.10	1.4	1.66	0.050	<0.050	0.25	0.10	1.3	1.55	<0.050	<0.050u	0.20	<0.10	1.2	1.4	0.050
21E							<0.050	0.28	<0.10	0.70	0.98	<0.050						
22B	<0.050	0.15	0.10	0.90	1.05	0.070	<0.050	0.22	0.20	1.7	1.92	0.080	<0.050u	0.25	<0.10	1.4	1.65	<0.050
22C	<0.050	0.29	0.20	1.1	1.39	0.070	<0.050	0.21	0.10	4.2	4.41	0.050	<0.050u	0.17	<0.10	0.6	0.77	<0.050
22D	<0.050	0.22	0.10	1.0	1.22	0.070	<0.050	0.20	0.10	1.5	1.70	0.050	<0.050u	0.23	<0.10	1.2	1.43	0.050
22F	<0.050	0.22	0.10	0.70	0.92	0.060	<0.050	0.33	0.10	1.1	1.43	0.060	<0.050u	0.24	<0.10	0.60	0.84	0.42
24C	<0.050	0.16	0.10	0.10	0.26	<0.050u	<0.050	0.20	<0.10	0.90	1.10	<0.050	<0.050u	0.27	<0.10	0.80	1.07	<0.050
26A							<0.050	0.26	<0.10	1.2	1.46	<0.050	<0.050u	0.23	<0.10	0.70	0.93	<0.050
26C	<0.050	0.17	0.20	0.40	0.57	<0.050u							<0.050u	0.23	<0.10	0.70	0.93	<0.050
28C	<0.050	0.20	0.10	0.50	0.70	<0.050u												
28D	<0.050	0.25	0.10	0.20	0.45	<0.050u	<0.050	0.32	<0.10	2.0	2.32	<0.050	<0.050u	0.23	<0.10	0.70	0.93	<0.050
34A	<0.050	0.17	0.20	1.0	1.17	<0.050u	<0.050	0.28	<0.10	0.50	0.78	<0.050	<0.050u	0.23	<0.10	0.40	0.63	<0.050
35A	<0.050	0.22	0.10	0.10	0.32	<0.050u	<0.050	0.23	<0.10	0.50	0.73	<0.050						
39A	<0.050	0.13	0.10	0.40	0.53	<0.050u	<0.050	0.08	<0.10	0.90	0.98	<0.050	<0.050u	0.20	<0.10	0.40	0.60	<0.050
41A	<0.050	0.19	0.10	0.30	0.49	<0.050u	<0.050	0.25	<0.10	1.1	1.35	<0.050	<0.050u	0.24	0.20	1.7	1.94	<0.050
43A	<0.050	0.19	0.10	0.20	0.39	<0.050u	<0.050	0.29	<0.10	0.70	0.99	<0.050	<0.050u	0.18	<0.10	0.40	0.58	<0.050
48A	<0.050	0.24	0.10	0.30	0.54	<0.050u							<0.050u	0.25	<0.10	0.70	0.95	<0.050
49A	<0.050	0.24	0.10	0.40	0.64	<0.050u	<0.050	0.25	<0.10	0.50	0.75	<0.050	<0.050u	0.14	0.10	0.60	0.74	<0.050
52B	<0.050	0.18	0.10	0.80	0.98	<0.050u	<0.050	0.23	0.10	2.0	2.23	<0.050	<0.050u	0.26	0.20	1.4	1.66	<0.050
58B	<0.050	0.23	0.20	1.2	1.43	<0.050u	<0.050	0.24	<0.10	2.0	2.24	<0.050	<0.050u	0.24	<0.10	1.2	1.44	<0.050
58E	<0.050	0.21	0.10	0.40	0.61	<0.050u												
62C	<0.050	0.23	0.10	0.10	0.33	<0.050u	<0.050	0.27	<0.10	0.50	0.77	<0.050	<0.050u	0.27	<0.10	0.20	0.47	0.060
66A	<0.050	0.22	0.10	0.60	0.82	<0.050u							<0.050u	0.25	0.10	0.60	0.85	<0.050
66C	<0.050	0.13	0.10	1.6	1.73	<0.050u	<0.050	0.26	<0.10	1.4	1.66	<0.050	<0.050u	0.28	<0.10	0.50	0.78	<0.050
67A							<0.050	0.30	<0.10	0.80	1.10	<0.050	<0.050u	0.26	<0.10	0.40	0.66	<0.050
67C	<0.050	0.52	0.20	0.60	1.12	<0.050u	<0.050	0.28	<0.10	1.2	1.48	<0.050	<0.050u	0.16	0.20	0.70	0.86	<0.050
69B							<0.050	0.24	<0.10	1.5	1.74	<0.050						
70B	<0.050	0.37	0.10	0.40	0.77	<0.050u	<0.050	0.25	<0.10	1.3	1.55	<0.050	<0.050u	0.21	<0.10	0.50	0.71	<0.050
72A	<0.050	0.25	0.10	0.80	1.05	<0.050u	<0.050	0.21	<0.10	1.3	1.51	0.050	<0.050u	0.23	<0.10	0.60	0.83	<0.050
85C	<0.050	0.19	0.10	0.10	0.29	<0.050u	<0.050	0.33	<0.10	0.90	1.23	0.050	<0.050u	0.22	<0.10	<0.10	0.22	<0.050
88B	<0.050	0.27	0.20	0.30	0.57	<0.050u	<0.050	0.28	<0.10	0.70	0.98	0.050	<0.050u	0.26	0.10	<0.10	0.26	0.050
90A	<0.050	0.19	0.10	0.10	0.29	<0.050u	<0.050	0.26	<0.10	1.4	1.66	<0.050	<0.050u	0.16	0.10	0.40	0.56	<0.050
WQ	1.0	1.0	☺	☺	2.0	0.46	1.0	1.0	☺	☺	2.0	0.46	1.0	1.0	☺	☺	2.0	0.46

Laboratory Analysis	
NO2	= Nitrites
NO3	= Nitrates
NH3	= Ammonia
TKN	= Total Kjeldahl Nitrogen
TN	= Total Nitrogen
T-PO4	= Total Phosphorus

FL Storm Water Quality Standard	
(Units: mg/L = milligrams/liter)	
NO2	< 1.0 mg/L
NO3	< 1.0 mg/L
NH3	= No limit set
TKN	= No limit set
TN	< 2.0 mg/L
T-PO4	< 0.46 mg/L

WQ =	Florida State Storm Water Quality Standard
Cape Coral's freshwater canal system is our secondary line of stormwater treatment; therefore, your samples are compared to the Florida State Storm Water Quality Standards.	
☐	= No Sample Supplied.
☺	= No Water Quality Standard set for this limit.

## Events

### April

14<sup>th</sup> FYN (FM) 9-12  
Demo/tour: 1-3

19<sup>th</sup> CHNEP Citizen  
Advisory Committee!

22<sup>nd</sup> Earth Day

22<sup>nd</sup> Rain Barrel Workshop 9-11

22<sup>nd</sup> Native Plant Sale (Rotary)

### May

3<sup>rd</sup> Canalwatch!

9<sup>th</sup> Cape Coral Friends of  
Wildlife - Rotary Park - 7pm

19<sup>th</sup> FYN (CC) 1-4

19<sup>th</sup> FYN (FM) 6-9

### June

7<sup>th</sup> Canalwatch!

17<sup>th</sup> FYN (FM) 9-12

We look forward to  
seeing you there!

*ERD Staff.....*

*Connie, Kraig, Faith, & Harry*

### More Information Available AT:

**FYN:** <http://lee.ifas.ufl.edu> -or- Call: Rotary Park at: 549-4606 (CC = Cape Coral, FM = Fort Myers)

**CHNEP:** <http://www.chnep.org>

**Cape Coral:** <http://www.ccfriendsofwildlife.org>

### **City of Cape Coral**

**Public Works Department**

**Environmental Resources Division**

**P.O. Box 150027**

**Cape Coral, FL 33915-0027**